Bruhat Bangalore Mahanagara Palike

Executive Engineer
Yelhanka Division

DETAILED ESTIMATE

Name of Work: Providing Asphalting to Nagenahalli Layout main and cross roads in ward no-02 of Yelhanka subdivision.

PROJECT COST: 49.90 Lakhs

Mecadez Core Technologies Private limited

Project Management and Consultancy Services

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BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer-Yelhanka Division

Detailed Estimate

Name of Work: Providing Asphalting to Nagenahalli Layout main and cross roads in ward no-02 of Yelhanka subdivision

			Estimate Amount : 4990000.00						
Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
				CIVIL WORKS					
1	Removing Slab of drain and Stacking **(Page No 25., I.No.5.32 of KPWD S.R 2015-16).**								
		Sqm							
	COVER SLAB								
	Main road-1								
	Ch: (0 - 100)	R/s	1	100	0.90		90.00		
	Deuction for Cross roads (41-34)+(67-60)+(100-93) = 21		-1	21	0.90		-18.90		
	Ch: (0 - 100)	L/s	1	100	0.90		90.00		
	1st cross road								
	Ch: (0 - 38)	B/s	2	38	0.90		68.40		
	2nd cross road								
	Ch: (0 - 38)	B/s	2	38	0.90		68.40		
	3rd cross road								
	Ch: (0 - 38)	B/s	2	38	0.90		68.40		
							366.30		
	Box Drain								
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (158 - 283)	R/s	1	125	1.50		187.50		
	Ch: (158 - 275)	L/s	1	117	1.50		175.50		
	Ch: (0 - 101)	R/s	1	101	1.50		151.50		
	Ch: (0 - 109)	L/s	1	109	1.50		163.50		
	Main road-1								
	Ch: (100 - 128)	R/s	1	28	1.50		42.00		
	Ch: (100 - 128)	L/s	1	28	1.50		42.00		
	2nd cross road								
	Ch: (0 - 22)	B/s	2	22	1.50		66.00		
	3rd cross road								
	Ch: (0 - 22)	B/s	2	22	1.50		66.00		
							894.00		
							1260.30	**63.72**	**80306.32**
2	Refixing Slabs of drains and Pointing in C.M(1:3) **(Page No 25., I.No.5.33 of KPWD S.R 2015-16).**								
		Sqm							
	COVER SLAB								
	Main road-1								
	Ch: (0 - 100)	R/s	1	100	0.90		90.00		
	Deuction for Cross roads (41-34)+(67-60)+(100-93) = 21		-1	21	0.90		-18.90		
	Ch: (0 - 100)	L/s	1	100	0.90		90.00		
	1st cross road								
	Ch: (0 - 38)	B/s	2	38	0.90		68.40		
	2nd cross road								
	Ch: (0 - 38)	B/s	2	38	0.90		68.40		
	3rd cross road								
	Ch: (0 - 38)	B/s	2	38	0.90		68.40		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
							366.30		
	Deduction for damaged 20%						-73.26		
	Box Drain								
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (158 - 283)	R/s	1	125	1.50		187.50		
	Ch: (158 - 275)	L/s	1	117	1.50		175.50		
	Ch: (0 - 101)	R/s	1	101	1.50		151.50		
	Ch: (0 - 109)	L/s	1	109	1.50		163.50		
	Main road-1								
	Ch: (100 - 128)	R/s	1	28	1.50		42.00		
	Ch: (100 - 128)	L/s	1	28	1.50		42.00		
	2nd cross road								
	Ch: (0 - 22)	B/s	2	22	1.50		66.00		
	3rd cross road								
	Ch: (0 - 22)	B/s	2	22	1.50		66.00		
							894.00		
	Deduction for damaged 25%						-223.50		
							963.54	**78.84**	**75965.49**
3	**Providing granite slabs** of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5cm thick**(Page No 25., I.No.5.31.1 of KPWD S.R 2015-16).**								
		Sqm							
	Box Drain								
	For Damaged portion						223.50		
							223.50	**663.12**	**148207.32**
4	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
		Sqm							
	COVER SLAB								
	Box Drain								
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (158 - 283)	R/s	1	125	0.90		112.50		
	Ch: (158 - 275)	L/s	1	117	0.90		105.30		
	Ch: (0 - 101)	R/s	1	101	0.90		90.90		
	Ch: (0 - 109)	L/s	1	109	0.90		98.10		
	Main road-1								
	Ch: (100 - 128)	R/s	1	28	0.90		25.20		
	Ch: (100 - 128)	L/s	1	28	0.90		25.20		
	2nd cross road								
	Ch: (0 - 22)	B/s	2	22	0.90		39.60		
	3rd cross road								
	Ch: (0 - 22)	B/s	2	22	0.90		39.60		
	For Damaged portion						73.26		
							609.66	**1834.00**	**1118116.44**
5	KSRRB 300-1. **Earthwork excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No141., I.No.19.1 of KPWD S.R 2015-16).**								
		Cum							

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	New Drain								
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (0 - 158)		2	158	0.60	0.700	132.72		
	Ch: (158 - 283)		2	125	0.60	0.700	105.00		
	Ch: (0 - 109)		2	109	0.60	0.700	91.56		
	Main road-1								
	Ch: (0 - 128)		2	128	0.60	0.700	107.52		
	1st cross road								
	Ch: (0 - 38)		2	38	0.60	0.700	31.92		
	2nd cross road								
	Ch: (0 - 38)		2	38	0.60	0.700	31.92		
	Ch: (0 - 22)		2	22	0.60	0.700	18.48		
	3rd cross road								
	Ch: (0 - 38)		2	38	0.60	0.700	31.92		
	Ch: (0 - 22)		2	22	0.60	0.700	18.48		
							569.52	**168.76**	**96112.20**
6	KSRB 4-1.2 : Providing and laying in **position plain cement concrete of mix1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.2 of KPWD S.R 2015-16).**								
		Cum							
	Coping								
	Flagging course on existing								
	Main road-1								
	Ch: (0 - 100)	R/s	2	100	0.15	0.100	3.00		
	Deuction for Cross roads (41-34)+(67-60)+(100-93) = 21		-2	21	0.15	0.100	-0.63		
	Ch: (0 - 100)	L/s	2	100	0.15	0.100	3.00		
	1st cross road								
	Ch: (0 - 38)	B/s	4	38	0.15	0.100	2.28		
	2nd cross road								
	Ch: (0 - 38)	B/s	4	38	0.15	0.100	2.28		
	3rd cross road								
	Ch: (0 - 38)	B/s	4	38	0.15	0.100	2.28		
	Flagging course New								
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (158 - 283)	R/s	1	125	0.15	0.100	1.88		
	Ch: (158 - 275)	L/s	1	117	0.15	0.100	1.76		
	Ch: (0 - 101)	R/s	1	101	0.15	0.100	1.52		
	Ch: (0 - 109)	L/s	1	109	0.15	0.100	1.64		
	Main road-1								
	Ch: (100 - 128)	R/s	1	28	0.15	0.100	0.42		
	Ch: (100 - 128)	L/s	1	28	0.15	0.100	0.42		
	2nd cross road								
	Ch: (0 - 22)	B/s	2	22	0.15	0.100	0.66		
	3rd cross road								
	Ch: (0 - 22)	B/s	2	22	0.15	0.100	0.66		
							21.15	**5236.92**	**110760.86**

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amou in Rs
7	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with **solid concrete blocks of size 40x15x20cms** conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **(Page No 25., I.No.5.34 of KPWD S.R 2015-16).**								
		Sqm							
	Flagging course on existing								
	Main road-1								
	Ch: (0 - 100)	R/s	2	100		0.200	40.00		
	Deuction for Cross roads (41-34)+(67-60)+(100-93) = 21		-2	21		0.200	-8.40		
	Ch: (0 - 100)	L/s	2	100		0.200	40.00		
	1st cross road								
	Ch: (0 - 38)	B/s	4	38		0.200	30.40		
	2nd cross road								
	Ch: (0 - 38)	B/s	4	38		0.200	30.40		
	3rd cross road								
	Ch: (0 - 38)	B/s	4	38		0.200	30.40		
	Flagging course New								
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (158 - 283)	R/s	1	125		0.400	50.00		
	Ch: (158 - 275)	L/s	1	117		0.400	46.80		
	Ch: (0 - 101)	R/s	1	101		0.400	40.40		
	Ch: (0 - 109)	L/s	1	109		0.400	43.60		
	Main road-1								
	Ch: (100 - 128)	R/s	1	28		0.400	11.20		
	Ch: (100 - 128)	L/s	1	28		0.400	11.20		
	2nd cross road								
	Ch: (0 - 22)	B/s	2	22		0.400	17.60		
	3rd cross road								
	Ch: (0 - 22)	B/s	2	22		0.400	17.60		
							401.20	**963.36**	**386500.03**
8	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.6 of KPWD S.R 2015-16).**								
		Cum							
	Coping								
	Flagging course on existing								
	Main road-1								
	Ch: (0 - 100)	R/s	2	100	0.15	0.075	2.25		
	Deuction for Cross roads (41-34)+(67-60)+(100-93) = 21		-2	21	0.15	0.075	-0.47		
	Ch: (0 - 100)	L/s	2	100	0.15	0.075	2.25		
	1st cross road								
	Ch: (0 - 38)	B/s	4	38	0.15	0.075	1.71		
	2nd cross road								
	Ch: (0 - 38)	B/s	4	38	0.15	0.075	1.71		
	3rd cross road								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (0 - 38)	B/s	4	38	0.15	0.075	1.71		
	Flagging course New Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (158 - 283)	R/s	1	125	0.15	0.075	1.41		
	Ch: (158 - 275)	L/s	1	117	0.15	0.075	1.32		
	Ch: (0 - 101)	R/s	1	101	0.15	0.075	1.14		
	Ch: (0 - 109)	L/s	1	109	0.15	0.075	1.23		
	Main road-1								
	Ch: (100 - 128)	R/s	1	28	0.15	0.075	0.32		
	Ch: (100 - 128)	L/s	1	28	0.15	0.075	0.32		
	2nd cross road								
	Ch: (0 - 22)	B/s	2	22	0.15	0.075	0.50		
	3rd cross road								
	Ch: (0 - 22)	B/s	2	22	0.15	0.075	0.50		
							15.86	5490.72	87096.55

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amou in Rs
	ROAD WORKS								
9	KSRRB M300-14. **Excavation for roadwork** in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 **(Page No 142., I.No.19.14 of KPWD S.R 2015-16).**								
		Cum							
	Widening and new Construction								
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (0 - 109)	B/s	2	109	1.00	0.425	92.65		
	Main road-1								
	Ch: (0 - 128)	B/s	2	128	1.25	0.425	136.00		
	1st cross road								
	Ch: (0 - 38)	B/s	2	38	1.10	0.425	35.53		
	2nd cross road								
	Ch: (0 - 38)	B/s	1	38	1.10	0.425	17.77		
	Ch: (0 - 22)		1	22	5.70	0.425	53.30		
	3rd cross road								
	Ch: (0 - 38)		1	38	6.00	0.425	96.90		
	Ch: (0 - 22)		1	22	6.00	0.425	56.10		
							488.24	**134.20**	**65521.81**
10	KSRRB 300-58. **Compaction of original ground** with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 **(Page No 148., I.No.19.64 of KPWD S.R 2015-16).**								
		Cum							
	Widening and new Construction								
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (0 - 109)	B/s	2	109	1.00		218.00		
	Main road-1								
	Ch: (0 - 128)	B/s	2	128	1.25		320.00		
	1st cross road								
	Ch: (0 - 38)	B/s	2	38	1.10		83.60		
	2nd cross road								
	Ch: (0 - 38)	B/s	1	38	1.10		41.80		
	Ch: (0 - 22)		1	22	5.70		125.40		
	3rd cross road								
	Ch: (0 - 38)		1	38	6.00		228.00		
	Ch: (0 - 22)		1	22	6.00		132.00		
							1148.80	**4.86**	**5583.17**
11	KSRRB M400-6.1. Construction of **granular sub-base** by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material **(Page No 154., I.No.20.4.2 of KPWD S.R 2015-16).**								
		Cum							
	Widening and new Construction								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (0 - 109)	B/s	2	109	1.00	0.150	32.70		
	Main road-1								
	Ch: (0 - 128)	B/s	2	128	1.25	0.150	48.00		
	1st cross road								
	Ch: (0 - 38)	B/s	2	38	1.10	0.150	12.54		
	2nd cross road								
	Ch: (0 - 38)	B/s	1	38	1.10	0.150	6.27		
	Ch: (0 - 22)		1	22	5.70	0.150	18.81		
	3rd cross road								
	Ch: (0 - 38)		1	38	6.00	0.150	34.20		
	Ch: (0 - 22)		1	22	6.00	0.150	19.80		
							172.32	**1622.16**	**279530.61**
12	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **(Page No 157., I.No.20.18 of KPWD S.R 2015-16).**								
		Cum							
	Widening and new Construction								
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (0 - 109)	B/s	2	109	1.00	0.225	49.05		
	Main road-1								
	Ch: (0 - 128)	B/s	2	128	1.25	0.225	72.00		
	1st cross road								
	Ch: (0 - 38)	B/s	2	38	1.10	0.225	18.81		
	2nd cross road								
	Ch: (0 - 38)	B/s	1	38	1.10	0.225	9.41		
	Ch: (0 - 22)		1	22	5.70	0.225	28.22		
	3rd cross road								
	Ch: (0 - 38)		1	38	6.00	0.225	51.30		
	Ch: (0 - 22)		1	22	6.00	0.225	29.70		
							258.48	**1713.96**	**443024.38**
13	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 **(Page No 160., I.No.21.6 of KPWD S.R 2015-16).**								
		Sqm							
	Widening and new Construction								
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (0 - 109)	B/s	2	109	1.00		218.00		
	Main road-1								
	Ch: (0 - 128)	B/s	2	128	1.25		320.00		
	1st cross road								
	Ch: (0 - 38)	B/s	2	38	1.10		83.60		
	2nd cross road								
	Ch: (0 - 38)	B/s	1	38	1.10		41.80		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (0 - 22)		1	22	5.70		125.40		
	3rd cross road								
	Ch: (0 - 38)		1	38	6.00		228.00		
	Ch: (0 - 22)		1	22	6.00		132.00		
							1148.80	**32.40**	**37221.12**
14	KSRRB 500-2. **Cleaning the existing black topped** surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5**(Page No 160., I.No.21.2 of KPWD S.R 2015-16).**								
		Sqm							
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (0 - 158)		1	158	4.20		663.60		
	Ch: (158 - 283)		1	125	4.10		512.50		
	Ch: (0 - 109)		1	109	4.00		436.00		
	Main road-1								
	Ch: (0 - 128)		1	128	3.50		448.00		
	1st cross road								
	Ch: (0 - 38)		1	38	3.80		144.40		
	2nd cross road								
	Ch: (0 - 38)		1	38	3.50		133.00		
							2337.50	**3.24**	**7573.50**
##	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **(Page No 160., I.No.21.7 of KPWD S.R 2015-16).**								
		Sqm							
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (0 - 158)		1	158	4.20		663.60		
	Ch: (158 - 283)		1	125	4.10		512.50		
	Ch: (0 - 109)		1	109	6.00		654.00		
	Main road-1								
	Ch: (0 - 128)		1	128	6.00		768.00		
	1st cross road								
	Ch: (0 - 38)		1	38	6.00		228.00		
	2nd cross road								
	Ch: (0 - 38)		1	38	5.70		216.60		
	Ch: (0 - 22)		1	22	5.70		125.40		
	3rd cross road								
	Ch: (0 - 38)		1	38	6.00		228.00		
	Ch: (0 - 22)		1	22	6.00		132.00		
							3528.10	**15.12**	**53344.87**
16	KSRRB M500- 15. Providing, laying **dense graded bituminous macadam** using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507 **(Page No 161., I.No.21.17.6 of KPWD S.R 2015-16).**								
		Cum							
	Widening and new Construction								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (0 - 109)		2	109	1.00	0.050	10.90		
	Main road-1								
	Ch: (0 - 128)		2	128	1.25	0.050	16.00		
	1st cross road								
	Ch: (0 - 38)		2	38	1.10	0.050	4.18		
	2nd cross road								
	Ch: (0 - 38)		1	38	1.10	0.050	2.09		
	Ch: (0 - 22)		1	22	5.70	0.050	6.27		
	3rd cross road								
	Ch: (0 - 38)		1	38	6.00	0.050	11.40		
	Ch: (0 - 22)		1	22	6.00	0.050	6.60		
	taking 12% for profile correction								
			1	280.50		0.050	14.03		
							71.47	**7927.20**	**566517.35**
17	KSRRB M500- 15. Providing, laying **bituminousConcrete** using **40/60 THP** capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 **(Page No 164., I.No.21.22.6 of KPWD S.R 2015-16).**								
		Cum							
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (0 - 158)		1	158	4.20	0.030	19.91		
	Ch: (158 - 283)		1	125	4.10	0.030	15.38		
	Ch: (0 - 109)		1	109	6.00	0.030	19.62		
	Main road-1								
	Ch: (0 - 128)		1	128	6.00	0.030	23.04		
	1st cross road								
	Ch: (0 - 38)		1	38	6.00	0.030	6.84		
	2nd cross road								
	Ch: (0 - 38)		1	38	5.70	0.030	6.50		
	Ch: (0 - 22)		1	22	5.70	0.030	3.76		
	3rd cross road								
	Ch: (0 - 38)		1	38	6.00	0.030	6.84		
	Ch: (0 - 22)		1	22	6.00	0.030	3.96		
							105.84	**9822.60**	**1039653.45**

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amou in Rs
	ROAD FURNITURES								
18	KSRRB M800-13. Providing and laying of **hot applied thermoplastic compound** 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 **(Page No 181., I.No.24.15 of KPWD S.R 2015-16).**								
		Sqm							
	Nagenahalli badavane road From Doddabalapur main road to layout								
	Ch: (0 - 158)		2.5	158	0.10		39.50		
	Ch: (158 - 283)		2.5	125	0.10		31.25		
	Ch: (0 - 109)		2.5	109	0.10		27.25		
	Main road-1								
	Ch: (0 - 128)		2	128	0.10		25.60		
	1st cross road								
	Ch: (0 - 38)		2	38	0.10		7.60		
	2nd cross road								
	Ch: (0 - 38)		2	38	0.10		7.60		
	Ch: (0 - 22)		2	22	0.10		4.40		
	3rd cross road								
	Ch: (0 - 38)		2	38	0.10		7.60		
	Ch: (0 - 22)		2	22	0.10		4.40		
							155.20	**473.04**	**73415.81**
	Sub Total								**4674451.2**
19	Cost towards Design Report and Detailed Estimate,PMC/Third party								46744.51
20	**Cost of Plastic@ 8% of bitumen qty for BC**	**Kg**	1	1193.91				**27.00**	32235.54
21	Cost towards DLP								233722.56
22	Misellenous and other charges								2846.11
	Grand Total								4990000.00

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16
4. That the provisions made in the estimate are necessary and quite essential.

Consultant:

For M/s MECADEZ CORE TECHNOLOGIES PVT LTD

Asst. Engineer
Ward No-02
BBMP

AEE
Yelhanka Sub Division
BBMP

Executive Engineer
Yelhanka Division
BBMP